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Paul A. Kuban, Rammohan K. Ragade

March 2005 Journal on Educational Resources in Computing (JERIC), Volume 5 Issue 1

Publisher: ACM Press

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Most electrical engineering and computer science undergraduate programs include at least one course on microcontrollers and assembly language programming. Some departments offer legacy courses in C programming, but few include C programming from an embedded systems perspective, where it is still regularly used. Distributed computing and parallel processing are subjects generally reserved for graduate programs or specialized degrees. And although it is common to provide undergraduate courses on c ...

Keywords: CAN, Cluster, controller area network, distributed, embedded systems, microcontrollers, parallel

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A 90-nm CMOS 1.8-V 2-Gb NAND flash memory for mass storage application

Lee J. Sung-Soo Lee Oh-Suk Kwon Kyeong-Han Lee Dae-Seok Byeon In-Young Kim Kyoung-Hwa Lee Youn Soon Choi Jong-Sik Lee Wang-Chul Shin Jeong-Hyuk Choi Kang-Deog Suh Memory Div., Samsung Electron. Co. Ltd., Gyeonggi, South Korea

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Abstract

A 1.8-V 2-Gb NAND flash memory has been successfully developed on a 90-nm CMOS STI process technology, result 2/ die size and a 0.044-/spl mu/m/sup 2/ effective cell. For the higher level integration, critical layers are patterned with The device has three notable differences from previous generations. 1) The cells are organized in a single (16K+512) c array by adopting a one-sided row decoder in order to minimize the die size. 2) The bitline precharge level is set to 0.9 on-cell current. 3) During the program operations, the string select line, which connects the NAND cell strings to the bitl sub-V/sub CC/ in order to avoid program disturbance issues.

Index Terms

Inspec

Controlled Indexing

CMOS memory circuits NAND circuits flash memories integrated circuit layout memory architecture photolithography

Non-controlled Indexing

1.8 V 2 Gbit 90 nm CMOS NAND flash memory CMOS STI process technology KrF photolithography strings bitline precharge level block placement chip architecture critical layer patterning die size minimi effective cell higher level integration mass storage applications on-cell current one-sided row decoder disturbance avoidance string select line

Author Keywords

Not Available

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